

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P296098

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

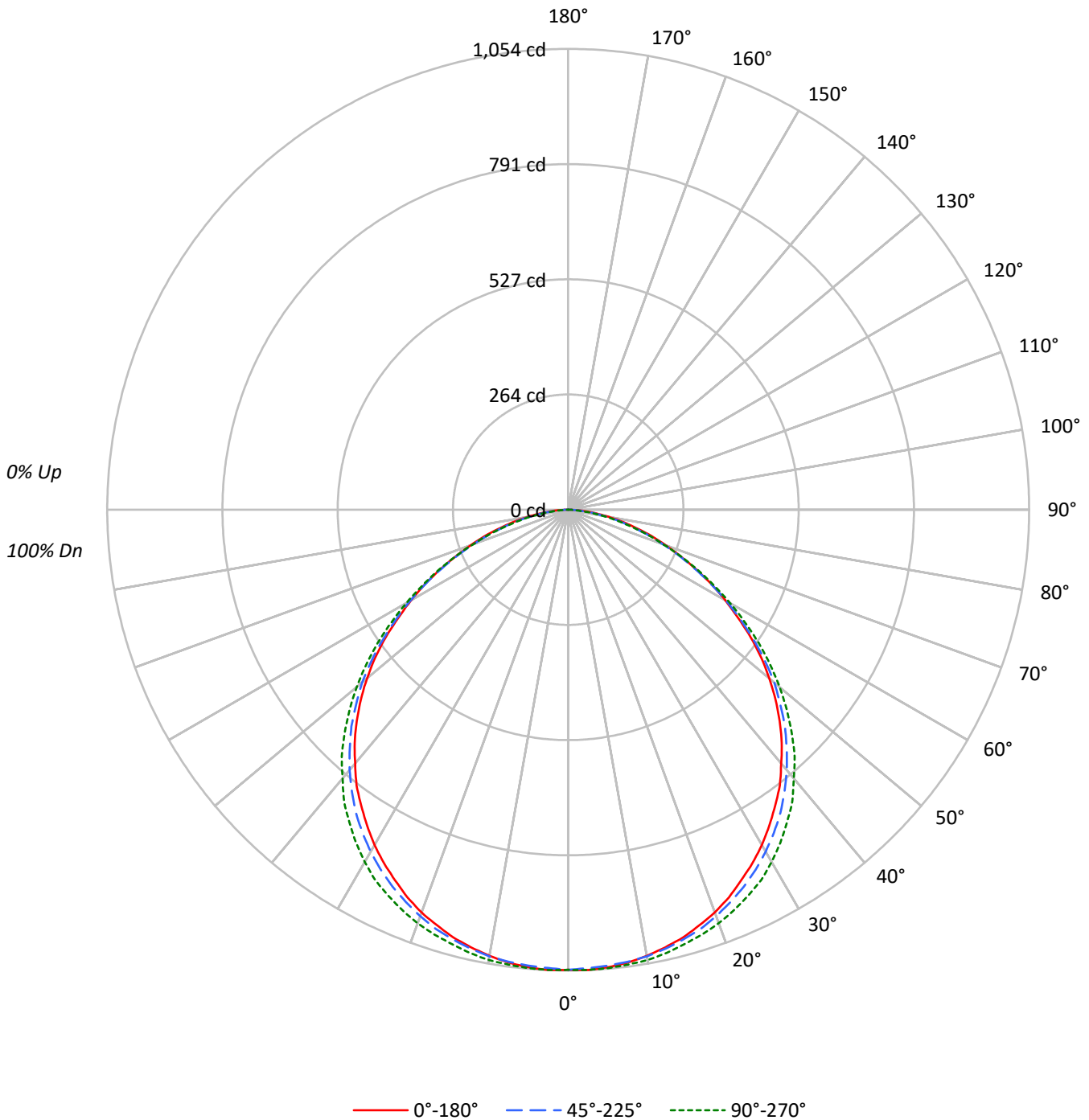
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1416	1416	1416
5°	1419	1414	1422
10°	1416	1417	1429
15°	1411	1417	1433
20°	1404	1416	1441
25°	1389	1412	1446
30°	1376	1403	1445
35°	1356	1390	1433
40°	1331	1365	1410
45°	1301	1334	1375
50°	1257	1287	1321
55°	1196	1211	1247
60°	1116	1122	1152
65°	1025	1018	1043
70°	932	906	911
75°	829	783	778
80°	719	643	626
85°	590	455	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.5
10°-20°	287.8	10.0
20°-30°	439.2	15.3
30°-40°	529.5	18.4
40°-50°	540.0	18.8
50°-60°	462.1	16.1
60°-70°	318.3	11.1
70°-80°	163.2	5.7
80°-90°	38.0	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	826.8	28.7
0°-40°	1356.3	47.1
0°-60°	2358.5	81.9
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1050	1048	1047	1050	1052	100
15°	1013	1012	1018	1025	1028	286
25°	936	939	951	967	974	431
35°	825	829	846	865	872	516
45°	684	685	701	718	723	527
55°	510	507	516	527	532	455
65°	322	314	320	322	328	320
75°	159	153	151	151	150	172
85°	38	34	30	26	23	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.5	1052.5	1052.5	1052.5	1052.5
2.5°	1053.6	1051.4	1049.2	1051.4	1053.6
5°	1050.3	1048.1	1047.0	1050.3	1052.5
7.5°	1044.9	1042.7	1042.7	1047.0	1049.2
10°	1036.1	1035.0	1037.2	1041.6	1045.9
12.5°	1025.2	1025.2	1028.5	1033.9	1038.3
15°	1013.2	1012.1	1017.6	1025.2	1028.5
17.5°	996.8	997.9	1005.5	1014.3	1018.6
20°	980.4	981.5	989.2	1001.2	1006.6
22.5°	959.7	961.9	970.6	985.9	991.4
25°	935.7	938.9	951.0	967.3	973.9
27.5°	911.7	914.9	928.0	946.6	955.3
30°	885.5	889.8	902.9	922.6	930.2
32.5°	856.0	859.2	875.6	895.3	902.9
35°	825.4	828.7	846.1	864.7	872.3
37.5°	794.8	794.8	812.3	834.1	841.8
40°	757.7	758.8	777.4	798.1	802.5
42.5°	722.8	722.8	739.1	758.8	766.4
45°	683.5	684.6	700.9	718.4	722.8
47.5°	643.1	643.1	657.3	673.6	678.0
50°	600.5	598.3	614.7	627.8	631.1
52.5°	556.8	553.5	566.6	577.6	581.9
55°	509.9	506.6	516.4	527.3	531.7
57.5°	460.7	456.4	467.3	477.1	479.3
60°	414.9	408.3	417.1	422.5	428.0
62.5°	369.0	361.4	367.9	371.2	375.6
65°	322.1	314.4	319.9	322.1	327.5
67.5°	277.3	271.9	273.0	276.2	278.4
70°	236.9	230.4	230.4	230.4	231.5
72.5°	199.8	190.0	188.9	190.0	190.0
75°	159.4	152.9	150.7	150.7	149.6
77.5°	127.7	119.0	117.9	115.7	113.5
80°	92.8	85.2	83.0	81.9	80.8
82.5°	64.4	57.9	55.7	53.5	50.2
85°	38.2	33.8	29.5	26.2	22.9
87.5°	14.2	13.1	10.9	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)